

## Programmieren Tutorium 5 – Aufgabe

#### Institut für Zeritfizierbare und Vertrauenswürdige Informatiksysteme (ZVI)



# Inhalt



Aufgabe

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### **Tipps**



```
img.getMinY();
img.getHeight();
new Color(img.getRGB(x, y));
img.setRGB(x, y, color.getRGB());
```

3

### **Aufgabe**



```
for each y from top to bottom
  for each x from left to right
    oldpixel := pixel[x][y]
    newpixel := find_closest_palette_color(oldpixel)
    pixel[x][y] := newpixel
    quant_error := oldpixel - newpixel
    pixel[x+1][y] := pixel[x+1][y] + 7/16 * quant_error
    pixel[x-1][y+1] := pixel[x-1][y+1] + 3/16 * quant_error
    pixel[x][y+1] := pixel[x][y+1] + 5/16 * quant_error
    pixel[x+1][y+1] := pixel[x+1][y+1] + 1/16 * quant_error
```

#### **Ende**





PLAYS A LOUD ALERT SOUND WHEN THERE IS A TORNADO WARNING FOR YOUR AREA.

## RATING: \*\*\*

USER REVIEWS:

MANY ALERT CHOICES.

★★★★ RUNNING GREAT, NO CRASHES

CAN SET MUCTIPLE LOCATIONS

★☆☆☆ APP DID NOT WARN ME ABOUT TORNADO.

THE PROBLEM WITH AVERAGING STAR RATINGS